

Station Site Logs

The vertical distance from the phase center of the GPS antenna to the Antenna Reference Point (ARP) is needed in order to connect the GPS measurements to the monument or point whose position you are trying to determine. NGS has measured these offsets as well as how these offsets change with direction to the GPS satellites. Most GPS antennas suitable for geodetic work have been calibrated by NGS and new antennas are calibrated when they become. Post-processing software contain these calibrations and applies these calibration corrections for the particular antenna type that you are using in order to ensure the greatest possible height accuracy.

Missing or incorrect antenna calibrations primarily affect height measurements and have been seen to cause height errors as large as 10 cm.

Antenna type and model numbers are contained in the Site Log for each CORS station. A link to the Site Log can be found on each of the individual CORS pages.

The Site Log contains a full history of a CORS site. All equipment and firmware changes are documented. Since All equipment at the station is listed, the user should ensure that the current station configuration is being retrieved from the file.